

Work Order ID 139521

139521

Page 1

Monday, November 30, 2015 11:45:19 AM

Item ID: D3978-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Nut

Stop

NS2

Start Date: 11/30/2015 Start Qty: 4.00

4

Cust Item ID:

Required Date: 11/30/2015 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan: MLJ

Date: **DEC 02 2015**

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3978	A								

100

0.00

100

Purchasing

Memo

0.00

Purchasing

Issue P/O:

30670

Purchase Part Number: 91853A031

Supplier: McMASTER-CARR

Certificate of conformity is required

CL DEC 04 2015 4

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.00

Packaging

4/1 SP15-12-08

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Work Order ID 139521***139521***

Page 2

Item ID: D3978-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Nut

Start Date: 11/30/2015 Start Qty: 4.00 ***4***

Cust Item ID:

Required Date: 11/30/2015 Req'd Qty: 4.00 ***4***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							JAS 38 9-89
120						(4)			
QC	Memo	0.00							
Quality Control									DEC 09 2015
130	Identify as per dwg & Stock Location: <u>ST067</u>	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

4 DEC 10 2015

MCS DEC 10 2015

MCS DEC 10 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY		
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

Picklist Print

Monday, November 30, 2015 11:45:19 AM

Page 1

Work Order ID: 139521

139521

Parent Item: D3978-1

D3978-1

Parent Item Name: Nut

Start Date: 11/30/2015

Required Date: 11/30/2015

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP RevA: New issue DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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91853A031

Purchased

No

110

Each

0.0000

1

4

91853A031

Nut

4X 8015-12-08

DQA: _____ Date: _____



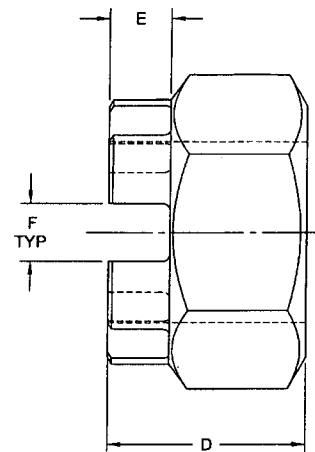
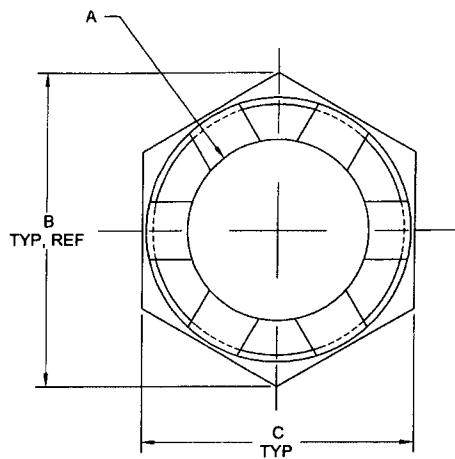
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER :							

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 139521 MJS

15-12-02

D3978-1 NUT (CASTELLATED), UNC

DART P/N	A	B	C	D	E	F	MATERIAL	WEIGHT (lbs)	SUPPLIER	SUPPLIER P/N
D3978-1	3/8-16 UNC	0.65	0.56	0.41	0.13	0.12	18-8 STAINLESS STEEL	0.02	McMASTER-CARR	91853A031

RELEASED
9/12/13 MJS

- NOTES:**
- 1) MATERIAL: SEE TABLE
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: SEE TABLE

A	NEW ISSUE	MB	09.07.13
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. D3978	REV. A SHEET 1 OF 1
TITLE NUT (CASTELLATED), UNC	
SCALE NTS	
COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30670**

Purchase Order Date 12/4/2015
PO Print Date 12/4/2015

Page Number 2 of 3

Order From :

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 10

Currency USD

FOB

FCA - (Free Carrier)

3	92311A564	Set Screw	12/8/2015	50.00 ✓	\$0.23	\$11.65
			Yes	Each		
			12/8/2015			

AS PER DWG D3533 REV. B
B139702

Line Total: \$11.65

4	92356A662	Bolt	12/8/2015	4.00 ✓	\$6.23	\$24.92
			Yes	Each		
			12/8/2015			

AS PER DWG D3977 REV. A
B139539

Line Total: \$24.92

5	91853A031	Nut	12/8/2015	4.00 ✓	\$3.40	\$13.60
			Yes	Each		
			12/8/2015			

AS PER DWG D3978 REV. A
B139521

Line Total: \$13.60

Note:

12/4/2015



Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Chantal

Purchase Order
PO30670

Page 1 of 1

12/04/2015

Order Placed By
Chantal Lavoie

McMaster-Carr Number
4200256-02

Line	Product	Ordered	Shipped
2	✓ 59915K274 PTFE-Lined Stainless Steel Ball Joint Rod End, 3/8"-24 Right-Hand Male Shank, 3/8" Ball ID, 1-1/4" L Thread	✓ 25 Each	✓ 25
3	92311A564 18-8 Stainless Steel Cup Point Set Screw, 1/4"-28 Thread, 1" Long, Packs of 50	1 Pack	1
4	92356A662 Type 18-8 Stainless Steel Square Neck Carriage Bolt, 3/8"-16 Thread, 10" Long, Packs of 1	4 Packs	4
5	91853A031 Slotted Locknut for Use with Cotter Pins, 18-8 Stainless Steel, 3/8"-16 Thread Size, 9/16" WD, Packs of 1	4 Packs	4
6	5862K14 Neodymium Disc Magnet, 1/2" Diameter, with Countersunk Hole for No. 4 Screw Size	8015-1202 1 Each	1

Shipped separately from our Chicago warehouse on 12/04

1	3543T25 High-Strength 301 Stainless Steel Sheet, with Certificate, 1/4 Hard, 0.048" Thick, 12" X 12"	1 Each	1
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Notes about your shipment

The U.S. Department of Transportation regulates the shipping of line 6. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.

Chantal

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500 Fax: 330-995-9600
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Invoice: 44834804
Purchase Order: PO30670
Release:
McMaster-Carr Number: 4200256-02

ORIGINAL COMMERCIAL
INVOICE
CERTIFICATE OF ORIGIN

Ultimate Destination:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Shipped: 04-Dec-2015 FOB: ORIGIN
Shipper's Export Declaration (SED):
NO EEI 30.36

Intermediate Consignee:

Bill To:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Tax Number:

Forwarding Agent:

Billing
Attention:
Shipping Chantal
Attention:
Contact:

Line	Description	Qty & Unit	Unit Price	Extension
2	59915K274 PTFE-Lined Stainless Steel Ball Joint Rod End, 3/8"-24 Right-Hand Male Shank, 3/8" Ball ID, 1-1/4" L Thread Country of Origin: United States Schedule B #: 848330 ECCN #: EAR99 NLR	25 EA	\$17.14	\$428.50
3	92311A564 18-8 Stainless Steel Cup Point Set Screw, 1/4"-28 Thread, 1" Long, Packs of 50 Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR	1 PK	\$11.50	\$11.50
4	92356A662 Type 18-8 Stainless Steel Square Neck Carriage Bolt, 3/8"-16 Thread, 10" Long, Packs of 1 Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR	4 PK	\$6.23	\$24.92
5	91853A031 Slotted Locknut for Use with Cotter Pins, 18-8 Stainless Steel, 3/8"-16 Thread Size, 9/16" WD, Packs of 1 Country of Origin: India Schedule B #: 731816 ECCN #: EAR99 NLR	4 PK	\$3.40	\$13.60
Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department. These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to US law is prohibited.				

15-12-02

Shipping Weight (in kgs): 3 Number of Packages: 1

Package Dimensions:
36 X 21 X 11 CM = .008 CUBIC M

Invoice Amounts: Merchandise Amount: \$481.83
Canadian GST/HST: \$64.37
Shipping Charges: \$13.22
Total (In USD): \$559.42

Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days

Authorized Signature: *Sarah Weinberg* Date: 04-Dec-2015

Remit payment to: (by wire transfer)
Bank of America Illinois
231 S LaSalle
Chicago, IL 60697
ABA 071000039 Account 86666-02021
SWIFT BOFAUS3N

Name: Sarah Weinberg Title: Operations Mgr.

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Fax: 330-995-9600

Invoice: 44834804

Purchase Order: PO30670

Release:

McMaster-Carr Number: 4200256-02

ORIGINAL COMMERCIAL

INVOICE

CERTIFICATE OF ORIGIN

Line	Description	Qty & Unit	Unit Price	Extension
6	5862K14 Neodymium Disc Magnet, 1/2" Diameter, with Countersunk Hole for No. 4 Screw Size Country of Origin: Peoples Republic of China Schedule B #: 850511 ECCN #: EAR99 NLR NOTE The U.S. Department of Transportation regulates the shipping of line 6. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws. NOTE Tracking number(s) for this shipment: MFA004554159	1 EA	\$3.31	\$3.31

SPF-12-08

Number of Packages: 1

Page 2 of 2